

PTO/SB/60 (04-05)

Approved for use through 11/30/2005. OMB 0651-0035

U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

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I hereby revoke all previous powers of attorney given in the application identified in the attached statement under 37 CFR 3.73(b).

I hereby appoint:



Practitioners associated with the Customer Number:

**00043831**

OR



Practitioner(s) named below (If more than ten patent practitioners are to be named, then a customer number must be used):

Name	Registration Number	Name	Registration Number

as attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with any and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignment documents attached to this form in accordance with 37 CFR 3.73(b).

Please change the correspondence address for the application identified in the attached statement under 37 CFR 3.73(b) to:



The address associated with Customer Number:

**00043831**

OR

<input type="checkbox"/> Firm or Individual Name			
Address			
City	State	Zip	
Country			
Telephone	Email		


Assignee Name and Address:

**Null Networks LLC**  
2215-B Renaissance Drive, Suite 5  
Las Vegas, NV 89119

A copy of this form, together with a statement under 37 CFR 3.73(b) (Form PTO/SB/96 or equivalent) is required to be filed in each application in which this form is used. The statement under 37 CFR 3.73(b) may be completed by one of the practitioners appointed in this form if the appointed practitioner is authorized to act on behalf of the assignee, and must identify the application in which this Power of Attorney is to be filed.

**SIGNATURE of Assignee of Record**

The individual whose signature and title is supplied below is authorized to act on behalf of the assignee

Signature		Date	17 NOV 2005
Name	Julia Ceffalo, Authorized Person, Null Networks LLC		Telephone
Title			

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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DEC 14 2005

PTO/SB/96 (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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**STATEMENT UNDER 37 CFR 3.73(b)**Applicant/Patent Owner: Null Networks LLCApplication No./Patent No.: 09/910,116Filed/Issue Date: 7/19/2001Entitled: PROGRAMMABLE PACKET FILTERING IN A PRIORITIZED CHAINNull Networks LLC

(Name of Assignee)

a Limited Liability Company

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of less than the entire right, title and interest.  
The extent (by percentage) of its ownership interest is \_\_\_\_\_ %  
in the patent application/patent identified above by virtue of either:

A. ☐ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

OR

B. ☒ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: Richard Willardson To: Network Elements, Inc.  
The document was recorded in the United States Patent and Trademark Office at  
Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
2. From: Network Elements, Inc. To: TriQuint Semiconductor, Inc.  
The document was recorded in the United States Patent and Trademark Office at  
Reel 016182, Frame 0609, or for which a copy thereof is attached.
3. From: TriQuint Semiconductor, Inc. To: Null Networks LLC  
The document was recorded in the United States Patent and Trademark Office at  
Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

☒ Copies of assignments or other documents in the chain of title are attached.

[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

12/14/05

Date

503.439.6500

Telephone number

Michael J. Willardson, Reg. No. 50,856

Typed or printed name

[Signature]

Signature

Attorney at Law

Title

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

JUNE 27, 2005

PTAS

**\*700176576A\*****\*700176576A\***

JOSEPH PUGH  
2300 NE BROCKWOOD PARKWAY  
PORTLAND, OR 97124

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT SERVICES DIVISION, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 05/04/2005

REEL/FRAME: 016182/0609

NUMBER OF PAGES: 7

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

## ASSIGNOR:

NETWORK ELEMENTS, INC.

DOC DATE: 12/17/2004

## ASSIGNEE:

TRIQUINT SEMICONDUCTOR, INC.  
2300 NE BROOKWOOD PARKWAY  
HILLSBORO, OREGON 97124

SERIAL NUMBER: 09836965

FILING DATE: 04/17/2001

PATENT NUMBER:

ISSUE DATE:

TITLE: PIPELINED DECIPHERING ROUND KEYS GENERATION

SERIAL NUMBER: 09836970

FILING DATE: 04/17/2001

PATENT NUMBER:

ISSUE DATE:

TITLE: UTILIZING AVAILABLE SONET OVERHEAD BYTES FOR ADDITIONAL SIGNALING CHANNELS

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SERIAL NUMBER: 09860207 FILING DATE: 05/18/2001  
PATENT NUMBER: ISSUE DATE:  
TITLE: MULTI-PROTOCOL NETWORKING PROCESSOR WITH DATA TRAFFIC SUPPORT  
SPANNING LOCAL, REGIONAL AND WIDE AREA NETWORKS

SERIAL NUMBER: 09910116 FILING DATE: 07/19/2001  
PATENT NUMBER: ISSUE DATE:  
TITLE: PROGRAMMABLE PACKET FILTERING IN A PRIORITIZED CHAIN

SERIAL NUMBER: 09918691 FILING DATE: 07/30/2001  
PATENT NUMBER: ISSUE DATE:  
TITLE: DATA LINK/PHYSICAL LAYER PACKET DIVERSION AND INSERTION

SERIAL NUMBER: 09918896 FILING DATE: 07/30/2001  
PATENT NUMBER: ISSUE DATE:  
TITLE: PROGRAMMABLE SONET FRAMING

SERIAL NUMBER: 09918931 FILING DATE: 07/30/2001  
PATENT NUMBER: ISSUE DATE:  
TITLE: DATA LINK/PHYSICAL LAYER PACKET BUFFERING AND FLUSHING

SERIAL NUMBER: 09919728 FILING DATE: 07/31/2001  
PATENT NUMBER: ISSUE DATE:  
TITLE: METHOD AND APPARATUS FOR PROGRAMMABLE GENERATION OF TRAFFIC STREAMS

SERIAL NUMBER: 09940315 FILING DATE: 08/27/2001  
PATENT NUMBER: 6904537 ISSUE DATE: 06/07/2005  
TITLE: DATA TRANSMISSION ACROSS ASYNCHRONOUS TIME DOMAINS USING PHASE-SHIFTED DATA PACKET

SERIAL NUMBER: 10087263 FILING DATE: 03/01/2002  
PATENT NUMBER: ISSUE DATE:  
TITLE: DATA BYTE INSERTION CIRCUITRY

SERIAL NUMBER: 10087722 FILING DATE: 03/01/2002  
PATENT NUMBER: ISSUE DATE:  
TITLE: HARDWARE SELF-SORTING SCHEDULING QUEUE

SERIAL NUMBER: 10087878 FILING DATE: 03/01/2002  
PATENT NUMBER: ISSUE DATE:  
TITLE: MONITORING A SEMICONDUCTOR LASER UTILIZING AN INCORPORATED BEAM SPLITTER DEVICE

SERIAL NUMBER: 10106977 FILING DATE: 03/25/2002  
PATENT NUMBER: ISSUE DATE:  
TITLE: IMPEDANCE MATCHING CONNECTION SCHEME FOR HIGH FREQUENCY CIRCUITS

SERIAL NUMBER: 10136662 FILING DATE: 04/30/2002  
PATENT NUMBER: ISSUE DATE:  
TITLE: METHOD AND APPARATUS OF FAST MODULAR REDUCTION

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SERIAL NUMBER: 10210989 FILING DATE: 08/02/2002  
PATENT NUMBER: ISSUE DATE:  
TITLE: SOFTWARE METHODS OF AN OPTICAL NETWORKING APPARATUS WITH MULTIPLE  
MULTI-PROTOCOL OPTICAL NETWORKING MODULES HAVING INSERTION AND  
CAPTURE RESOURCES

SERIAL NUMBER: 10211001 FILING DATE: 08/02/2002  
PATENT NUMBER: ISSUE DATE:  
TITLE: FLEXIBLE INTERRUPT HANDLING METHODS FOR OPTICAL NETWORKING  
APPARATUSES WITH MULTIPLE MULTI-PROTOCOL OPTICAL NETWORKING MODULES

SERIAL NUMBER: 10211002 FILING DATE: 08/02/2002  
PATENT NUMBER: ISSUE DATE:  
TITLE: SOFTWARE METHODS OF AN OPTICAL NETWORKING APPARATUS WITH INTEGRATED  
MODULES HAVING MULTI-PROTOCOL PROCESSORS AND PHYSICAL LAYER  
COMPONENTS

SERIAL NUMBER: 10211005 FILING DATE: 08/02/2002  
PATENT NUMBER: ISSUE DATE:  
TITLE: SOFTWARE METHODS OF AN OPTICAL NETWORKING APPARATUS WITH MULTIPLE  
MULTI-PROTOCOL OPTICAL NETWORKING MODULES

SERIAL NUMBER: 10211046 FILING DATE: 08/02/2002  
PATENT NUMBER: ISSUE DATE:  
TITLE: COUNTER FUNCTIONS IN AN APPLICATION PROGRAM INTERFACE FOR NETWORK  
DEVICES

SERIAL NUMBER: 10211047 FILING DATE: 08/02/2002  
PATENT NUMBER: ISSUE DATE:  
TITLE: EXTENSIBLE CONFIGURATION METHODS FOR OPTICAL NETWORKING APPARATUSES  
WITH MULTIPLE MULTI-PROTOCOL OPTICAL NETWORKING MODULES

SERIAL NUMBER: 10211158 FILING DATE: 08/02/2002  
PATENT NUMBER: ISSUE DATE:  
TITLE: SOFTWARE METHODS OF AN OPTICAL NETWORKING APPARATUS WITH MULTIPLE  
MULTI-PROTOCOL OPTICAL NETWORKING MODULES HAVING PACKET FILTERING  
RESOURCES

SERIAL NUMBER: 10211174 FILING DATE: 08/02/2002  
PATENT NUMBER: ISSUE DATE:  
TITLE: PREEMPTIVE NETWORK TRAFFIC CONTROL FOR REGIONAL AND WIDE AREA  
NETWORKS

SERIAL NUMBER: 10273626 FILING DATE: 10/18/2002  
PATENT NUMBER: ISSUE DATE:  
TITLE: FLEXIBLE ARCHITECTURE FOR SONET AND OTN FRAME PROCESSING

SERIAL NUMBER: 10279154 FILING DATE: 10/23/2002  
PATENT NUMBER: ISSUE DATE:  
TITLE: CONTENT ADDRESSABLE MEMORY WITH AUTOMATED LEARNING

SERIAL NUMBER: 10307104 FILING DATE: 11/27/2002  
PATENT NUMBER: ISSUE DATE:

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SERIAL NUMBER: 10393088	FILING DATE: 03/19/2003
PATENT NUMBER:	ISSUE DATE:
TITLE: DATA TRANSMISSION ERROR REDUCTION VIA AUTOMATIC DATA SAMPLING TIMING ADJUSTMENT	
SERIAL NUMBER: 10414115	FILING DATE: 04/14/2003
PATENT NUMBER:	ISSUE DATE:
TITLE: OPTICAL NETWORKING MODULE INCLUDING PROTOCOL PROCESSING AND UNIFIED SOFTWARE CONTROL	
SERIAL NUMBER: 10444460	FILING DATE: 05/22/2003
PATENT NUMBER:	ISSUE DATE:
TITLE: LASER DRIVE METHOD AND APPARATUS	
SERIAL NUMBER: 10428167	FILING DATE: 04/30/2003
PATENT NUMBER:	ISSUE DATE:
TITLE: MULTI-STAGE SONET OVERHEAD PROCESSING	
SERIAL NUMBER: 09861002	FILING DATE: 05/18/2001
PATENT NUMBER: 6567413	ISSUE DATE: 05/20/2003
TITLE: OPTICAL NETWORKING MODULE INCLUDING PROTOCOL PROCESSING AND UNIFIED SOFTWARE CONTROL	
SERIAL NUMBER: 09860367	FILING DATE: 05/18/2001
PATENT NUMBER: 6580731	ISSUE DATE: 06/17/2003
TITLE: MULTI-STAGE SONET OVERHEAD PROCESSING	
SERIAL NUMBER: 09896128	FILING DATE: 06/29/2001
PATENT NUMBER: 6679636	ISSUE DATE: 01/20/2004
TITLE: METHOD AND APPARATUS FOR MAINTAINING ALIGNMENT OF A LASER DIODE WITH AN OPTICAL FIBER	
SERIAL NUMBER: 09858232	FILING DATE: 05/15/2001
PATENT NUMBER: 6701479	ISSUE DATE: 03/02/2004
TITLE: FAST CYCLIC REDUNDANCY CHECK (CRC) GENERATION	
SERIAL NUMBER: 09910119	FILING DATE: 07/19/2001
PATENT NUMBER: 6732228	ISSUE DATE: 05/04/2004
TITLE: MULTI-PROTOCOL DATA CLASSIFICATION USING ON-CHIP CAM	
SERIAL NUMBER: 10087877	FILING DATE: 03/01/2002
PATENT NUMBER: 6803562	ISSUE DATE: 10/12/2004
TITLE: INDIRECT MONITORING OF SEMICONDUCTOR LIGHT SOURCE WITHIN A PHOTONIC PACKAGE	
SERIAL NUMBER: 09884312	FILING DATE: 06/18/2001
PATENT NUMBER: 6820228	ISSUE DATE: 11/16/2004
TITLE: FAST CYCLIC REDUNDANCY CHECK (CRC) GENERATION	
SERIAL NUMBER: 09920246	FILING DATE: 07/31/2001
PATENT NUMBER: 6842816	ISSUE DATE: 01/11/2005
TITLE: CONFIGURABLE GLUELESS MICROPROCESSOR INTERFACE	

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ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

Exhibit B

## ASSIGNMENT OF PATENT RIGHTS

For good and valuable consideration, the receipt of which is hereby acknowledged, **TriQuint Semiconductor, Inc.** having offices at 2300 NE Brookwood Parkway, Hillsboro, Oregon 97124, ("**Assignor**"), does hereby sell, assign, transfer and convey unto **Null Networks LLC**, a Nevada limited liability company, having an office at 2215-B Renaissance Drive, Suite 5, Las Vegas, NV 89119 ("**Assignee**") or its designees, all of Assignor's right, title and interest in and to the patent applications and patents listed below, any patents, registrations, or certificates of invention issuing on any patent applications listed below, the inventions disclosed in any of the foregoing, any and all counterpart United States, international and foreign patents, applications and certificates of invention based upon or covering any portion of the foregoing, and all reissues, re-examinations, divisionals, renewals, extensions, provisionals, continuations and continuations-in-part of any of the foregoing (collectively "**Patent Rights**");

Patent or Application No.	Country	Filing Date	Title and Inventor(s)
6,567,413	USA	5/18/2001	OPTICAL NETWORKING MODULE INCLUDING PROTOCOL PROCESSING AND UNIFIED SOFTWARE CONTROL
6,580,731	USA	5/18/2001	MULTI-STAGE SONET OVERHEAD PROCESSING
6,701,479	USA	5/15/2001	FAST CYCLIC REDUNDANCY CHECK (CRC) GENERATION
6,732,228	USA	7/19/2001	MULTI-PROTOCOL DATA CLASSIFICATION USING ON-CHIP CAM
6,803,562	USA	3/1/2002	INDIRECT MONITORING OF SEMICONDUCTOR LIGHT SOURCE WITHIN A PHOTONIC PACKAGE
6,820,228	USA	6/18/2001	FAST CYCLIC REDUNDANCY CHECK (CRC) GENERATION
6,842,816	USA	7/31/2001	CONFIGURABLE GLUELESS MICROPROCESSOR INTERFACE
09/836,985	USA	4/17/2001	PIPELINED DECIPHERING ROUND KEYS GENERATION
09/836,970	USA	4/17/2001	UTILIZING AVAILABLE SONET OVERHEAD BYTES FOR ADDITIONAL SIGNALING CHANNELS
09/860,207	USA	5/18/2001	MULTI-PROTOCOL NETWORKING PROCESSOR WITH DATA TRAFFIC SUPPORT SPANNING LOCAL, REGIONAL AND WIDE AREA NETWORKS
09/910,116	USA	7/19/2001	PROGRAMMABLE PACKET FILTERING IN A PRIORITIZED CHAIN
09/918,691	USA	7/30/2001	DATA LINK/PHYSICAL LAYER PACKET DIVERSION AND INSERTION
09/918,896	USA	7/30/2001	PROGRAMMABLE SONET FRAMING

Document Id: TriQuint NEI Patents - Patent Purchase Agreement - Final(3) - Execution Copy - 2005-07-05



Patent or Appli- cation No.	Country	Filing Date	Title and Inventor(s)
09/918,931	USA	7/30/2001	DATA LINK/PHYSICAL LAYER PACKET BUFFERING AND FLUSHING
09/919,728	USA	7/31/2001	METHOD AND APPARATUS FOR PROGRAMMABLE GENERATION OF TRAFFIC STREAMS
6,904,637	USA	8/27/2001	DATA TRANSMISSION ACROSS ASYNCHRONOUS TIME DOMAINS USING PHASE-SHIFTED DATA PACKET
10/087,263	USA	3/1/2002	DATA BYTE INSERTION CIRCUITRY
10/087,722	USA	3/1/2002	HARDWARE SELF-SORTING SCHEDULING QUEUE
10/087,878	USA	3/1/2002	MONITORING A SEMICONDUCTOR LASER UTILIZING AN INCORPORATED BEAM SPLITTER DEVICE
10/106,977	USA	3/25/2002	IMPEDANCE MATCHING CONNECTION SCHEME FOR HIGH FREQUENCY CIRCUITS
10/136,662	USA	4/30/2002	METHOD AND APPARATUS FOR FAST MODULAR REDUCTION
10/210,989	USA	8/2/2002	SOFTWARE METHODS OF AN OPTICAL NETWORK APPARATUS WITH MULTIPLE MULTI-PROTOCOL OPTICAL NETWORKING MODULES HAVING INSERTION
10/211,001	USA	8/2/2002	FLEXIBLE INTERRUPT HANDLING METHODS FOR OPTICAL NETWORK APPARATUSES WITH MULTIPLE MULTI-PROTOCOL OPTICAL NETWORKING MODULE
10/211,002	USA	8/2/2002	SOFTWARE METHODS OF AN OPTICAL NETWORK APPARATUS WITH INTEGRATED MODULES HAVING PROTOCOL PROCESSORS AND PHYSICAL LAYER COM
10/211,005	USA	8/2/2002	SOFTWARE METHODS OF AN OPTICAL NETWORK APPARATUS WITH MULTIPLE MULTI-PROTOCOL OPTICAL NETWORKING MODULES
10/211,046	USA	8/2/2002	COUNTER FUNCTIONS IN AN APPLICATION PROGRAM INTERFACE FOR NETWORK DEVICES
10/211,047	USA	8/2/2002	EXTENSIBLE CONFIGURATION METHODS FOR OPTICAL NETWORK APPARATUSES WITH MULTIPLE MULTI-PROTOCOL OPTICAL NETWORKING MODULES
10/211,158	USA	8/2/2002	METHODS OF AN OPTICAL NETWORK APPARATUS WITH MULTIPLE MULTI-PROTOCOL OPTICAL NETWORKING MODULES HAVING PACKET FILTERING RESOURCES
10/211,174	USA	8/2/2002	PREEMPTIVE NETWORK TRAFFIC CONTROL FOR REGIONAL AND WIDE AREA NETWORKS
10/273,826	USA	10/18/2002	FLEXIBLE ARCHITECTURE FOR SONET AND OTN FRAME PROCESSING
10/279,154	USA	10/23/2002	A CONTENT ADDRESSABLE MEMORY WITH AUTOMATED LEARNING
10/307,104	USA	11/27/2002	METHOD AND APPARATUS FOR CONTROLLING AN OPTICAL TRANSPONDER

Patent or Apph- ication No.	Country	Filing Date	Title and Inventor(s)
10/393,088	USA	3/19/2003	DATA TRANSMISSION ERROR REDUCTION VIA AUTOMATIC DATA SAMPLING TIMING ADJUSTMENT
10/414,115	USA	4/14/2003	OPTICAL NETWORKING MODULE INCLUDING PROTOCOL PROCESSING AND UNIFIED SOFTWARE CONTROL
10/428,167	USA	4/30/2003	MULTI-STAGE SONET OVERHEAD PROCESSING
10/444,460	USA	5/22/2003	LASER DRIVE METHOD AND APPARATUS
PCT/US02/15800	PCT	5/17/2002	AN OPTICAL NETWORKING MODULE INCLUDING PROTOCOL PROCESSING AND UNIFIED SOFTWARE CONTROL
PCT/US02/15594	PCT	5/17/2002	MULTI-STAGE SONET OVERHEAD PROCESSING
PCT/US02/15496	PCT	5/14/2002	FAST CYCLIC REDUNDANCY CHECK (CRC) GENERATION
PCT/US02/12316	PCT	4/17/2002	PIPELINED DECIPHERING ROUND KEYS GENERATION
PCT/US02/15755	PCT	5/17/2002	A MULTI-PROTOCOL NETWORKING PROCESSOR WITH DATA TRAFFIC SUPPORT SPANNING LOCAL, REGIONAL AND WIDE AREA NETWORKS
PCT/US02/24288	PCT	7/30/2002	DATA LINK PHYSICAL LAYER PACKET DIVERSION AND INSERTION
PCT/US02/24289	PCT	7/30/2002	PROGRAMMABLE SONET FRAMING
PCT/US02/24348	PCT	7/31/2002	METHOD AND APPARATUS FOR PROGRAMMABLE GENERATION OF TRAFFIC STREAMS
6,679,636	USA	6/29/2001	METHOD AND APPARATUS FOR MAINTAINING ALIGNMENT OF A LASER DIODE WITH AN OPTICAL FIBER

Assignor represents, warrants and covenants that: (i) it is the sole owner, assignee and holder of record title to the Patent Rights identified above, (ii) it has obtained and properly recorded previously executed assignments for all patent applications and patents identified above as necessary to fully perfect its rights and title therein in accordance with governing law and regulations in each respective jurisdiction, and (iii) it has full power and authority to make the present assignment.

Assignor further agrees to and hereby does sell, assign, transfer and convey unto Assignee all of Assignor's rights: (i) in and to causes of action and enforcement rights for the Patent Rights including all rights to pursue damages, injunctive relief and other remedies for past and future infringement of the Patent Rights, and (ii) to apply in any or all countries of the world for patents, certificates of invention or other governmental grants for the Patent Rights, including without limitation under the Paris Convention for the Protection of Industrial Property, the International Patent Cooperation Treaty, or any other convention, treaty, agreement or understanding. Assignor also hereby authorizes the respective patent office or governmental agency in each juris-

diction to issue any and all patents or certificates of invention which may be granted upon any of the Patent Rights in the name of Assignee, as the assignee to the entire interest therein.

Assignor will, at the reasonable request of Assignee and, except as provided below, without demanding any further consideration therefor, take commercially reasonable steps, including without limitation the execution, acknowledgment and recordation of specific assignments, oaths, declarations and other documents on a country-by-country basis, to assist Assignee in obtaining, fully perfecting, sustaining and/or conveying unto Assignor the Patent Rights. Such assistance shall include using commercially reasonable efforts to provide, and obtain from the respective inventors, prompt production of pertinent facts and documents, giving of testimony, execution of petitions, oaths, powers of attorney, specifications, declarations or other papers and other assistance reasonably necessary for filing patent applications, complying with any duty of disclosure, and conducting prosecution, reexamination, reissue, interference or other priority proceedings, opposition proceedings, cancellation proceedings, public use proceedings, infringement or other court actions and the like with respect to the Patent Rights. Assignee agrees, as a condition to Assignor's assistance, to reimburse Assignor's out-of-pocket expenses associated with enforcing the Patent Rights including any incurred in connection with infringement or other actions, provided that Assignor obtains Assignee's approval prior to incurring such expenses, which approval shall not be unreasonably withheld.

The terms and conditions of this Assignment shall inure to the benefit of Assignee, its successors, assigns and other legal representatives, and shall be binding upon Assignor, its successor, assigns and other legal representatives.

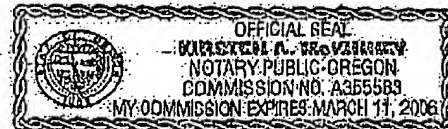
IN WITNESS WHEREOF this Assignment of Patent Rights is executed at 10:25 am  
on September 8, 2005

ASSIGNOR

By: 

Name: Glen A. Riley

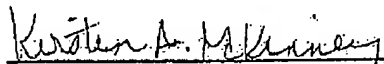
Title: VP Business Development



State of OREGON

County of Washington

Signed or attested before me on September 8, 2005 by Glen Riley



Notary Public - State of Oregon

My commission expires: March 11, 2006



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P.07/09

Attorney Docket No. 51040.P002

Patent

**ASSIGNMENT**  
(For Execution Prior To Filing Patent Application)

In consideration of good and valuable consideration, the receipt of which is hereby acknowledged that the undersigned,

ASSIGNOR(S): Richard Willardson

hereby sell, assign, and transfer to

ASSIGNEE: Network Elements, Incorporated  
A corporation of Oregon located at  
9560 SW Nimbus Avenue  
Beaverton, Oregon 97008

and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States and all foreign countries, in and to any and all improvements that are disclosed in the application for the United States patent that has been executed by the undersigned prior hereto or concurrently herewith on the dates indicated below and is entitled:

***PROGRAMMABLE PACKET FILTERING IN A PRIORITIZED CHAIN***

and in and to said application and all divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications that have been or shall be filed in the United States and all foreign countries on any of said improvements; and in and to all original patents, reissued patents, reexamination certificates, and extensions, that have been or shall be issued in the United States and all foreign countries on said improvements; and in and to all rights of priority resulting from the filing of said United States application;

agree that said Assignee may apply for and receive a patent or patents for said improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all divisional

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applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions and all other patent applications on any and all said improvements; execute all rightful oaths, assignments, powers of attorney, and other papers; communicate to said Assignee, its successors, assigns, and representatives all facts known to the undersigned relating to said improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or representatives in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements, and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns, and legal representatives; and

covenant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Inventor: Please sign and date below:

Inventor: Please  
indicate the date  
you signed the  
Combined  
Declaration And  
Power Of Attorney:

July 19, 2001  
Date

Richard Willardson  
Name: Richard Willardson

7/19, 2001  
Date

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Date

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Assignment Document Return Address:

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